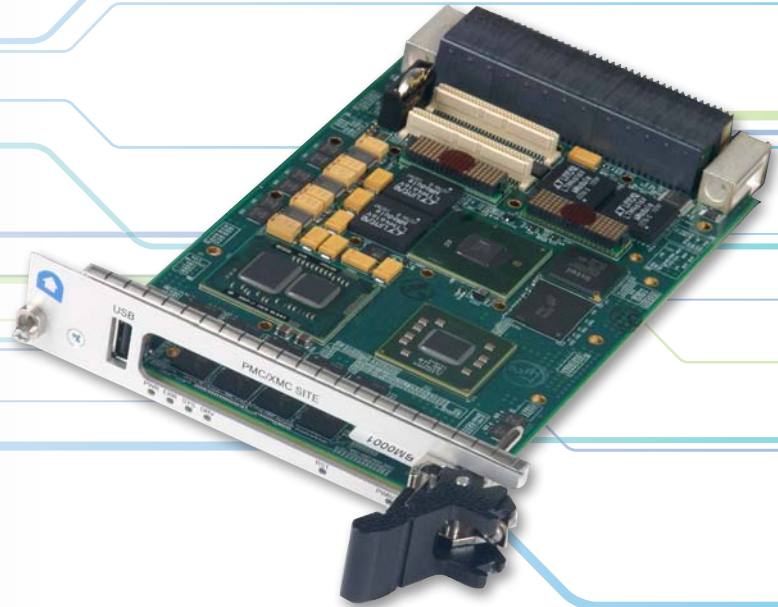


CPU 110-10 (V3PD/V3RD)

- OpenVPX Compatible
- Dual-Core Low Power Core i7
- MIL-STD-810F (V3RD) version
- Convection and Conduction cooled
- Open VPX Profile:
MOD3-PAY-2F1F2U-16.2.1-5



FEATURES

Open VPX compatible – The CPU 110-10 is Open VPX compatible, with a MOD3-PAY-2F1F2U-16.2.1-5 profile. It is a Payload Module with 3 fat pipes and two thin pipes.

High Performance and Low Power – With an Intel dual-core Core i7 CPU and up to 4GB of DDR3 RAM, the CPU 110-10 delivers very efficient computational capacity.

Small Footprint, Rich Features – With a 3U form factor, CPU 110-10 is very compact and lightweight, yet it packs a large number of peripherals, including SATA, DVI/HDMI, XMC expansion, USB and dual 10Gb Ethernet interfaces

MIL-STD Versions – The CPU 110-10 is offered in versions that support wedge locks for high shock and vibration immunity, and conduction-cooling. Conformal coating is available for all versions.

DXM – The CPU 110-10 allows I/O customization of front panel or rear I/O through the use of DXM expansion.

- Defense
- Homeland Security
- Aerospace
- Industrial
- Transportation

The CPU 110-10 is a high performance Single Board Computer (SBC) compliant with the 3U OpenVPX™ (VITA 65) form factor with a MOD3-PAY-2F1F2U-16.2.1-5 profile. Offered in both convection cooled and ruggedized conduction cooled variants, the CPU 110-10 will meet the needs of numerous commercial and military applications requiring maximum processing power, low power consumption, and small physical footprint.

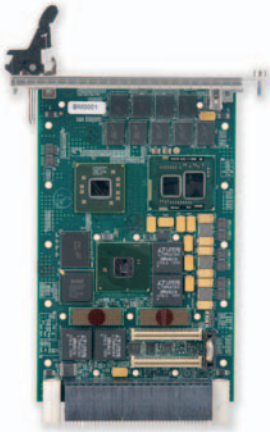
At the heart of the CPU 110-10 is a dual-core Intel® Core™ i7 CPU, with up to 4 GBytes of DDR3 SDRAM and 16GB of solid state storage. High-end connectivity is provided by dual 10 Gigabit Ethernet and dual Gigabit Ethernet ports supporting 10GBASE-BX4 backplane Data Plane fabric connectivity and 1000Base-BX backplane control plane connectivity.

The CPU 110-10 is a versatile board providing many peripherals, including: SATA, USB, DVI/HDMI, VGA, GPIO and SMBus. One XMC/PMC site with one x4 PCIe port and a 33MHz PCI bus makes it easy to add more capabilities to the board.

CPU 110-10 (V3PD/V3RD)

Specifications

3U OpenVPX
Core i7 SBC

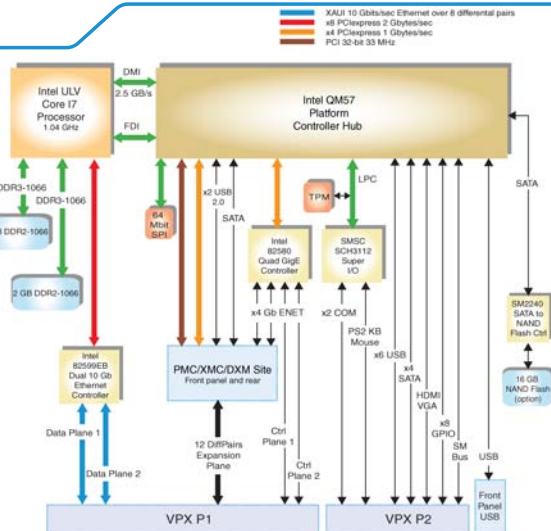


System Architecture

CPU	Ultra Low Voltage dual-core 1.04GHz L5408 Intel Core i7
RAM	Up to 4GB DDR3 SDRAM
STATIC MEMORY	64Mbit EEPROM 16GB soldered NAND FLASH (optional)
P1 INTERFACES	2x 10Gb Ethernet (Base BX4), IEEE1588 Precision Time Protocol • 2x Gb Ethernet (Base BX)
P2 INTERFACES	X8 differential pairs (XMC) 6x USB 2.0 • 4x SATA • HDMI/ DVI • SVGA • 8x GPIO • SM Bus • 2x RS-232/485 PS/2 Keyboard/Mouse
XMC/PMC	1x XMC/PMC front panel and rear • Busses: 32bit/33MHz PCI, x4 PCIe
FRONT PANEL INTERFACES	1x USB 2.0
DIMENSIONS	3U VITA65 OpenVPX
POWER	45W Typical
OPERATING TEMPERATURE	0°C to +70°C - Extended temperature versions available
COOLING	Conductive and convection cooling options



Block Diagram



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